

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S100  | 73   | (oled (organic near4 (device display))) same (contact near4 wiring)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 16:23 |
| S101  | 12   | (oled (organic near4 (device display))) same (contact near wiring)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 15:26 |
| S102  | 988  | (contact near4 wiring) near5 (multi\$layer (multiple adj layer) (conductive adj layer)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 16:25 |
| S103  | 587  | (contact near4 wiring) near5 (multi\$layer (multiple adj layer) )                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 16:25 |
| S104  | 26   | (contact adj wiring) near5 (multi\$layer (multiple adj layer) )                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 16:25 |
| S105  | 9    | ("5480841").URPN.   | USPAT   | OR               | ON      | 2006/04/11 16:31 |
| S106  | 105  | tsujimura-takatoshi.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 17:06 |
| S107  | 2    | tsujimura-takatoshi.in. and (contact adj wiring)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 17:07 |
| S108  | 45   | tsujimura-takatoshi.in. and (wiring)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/04/11 17:22 |
| S109  | 1    | ("6150668").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2006/04/11 17:20 |

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|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S11<br>0 | 3   | tsujimura-takatoshi.in. and<br>(diamond near3 carbon)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:22 |
| S11<br>1 | 11  | "5480841"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:22 |
| S11<br>2 | 16  | ("4783695"   "4820781"  <br>"5106667"   "5157589"  <br>"5219640"   "5232548"  <br>"5237205"   "5298331"  <br>"5359496"   "5434751"  <br>"5480841"   "5552222"  <br>"5728473"   "5734008"  <br>"5795162"   "5859181").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/11 17:25 |
| S11<br>3 | 16  | ("4783695"   "4820781"  <br>"5106667"   "5157589"  <br>"5219640"   "5232548"  <br>"5237205"   "5298331"  <br>"5359496"   "5434751"  <br>"5480841"   "5552222"  <br>"5728473"   "5734008"  <br>"5795162"   "5859181").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/11 17:27 |
| S11<br>4 | 264 | dielectric near5 (diamond adj like<br>adj carbon)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:44 |
| S11<br>5 | 3   | S114 and (contact near wiring)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:30 |
| S11<br>6 | 17  | "6097092"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:30 |
| S11<br>7 | 0   | dielectric near5 (diamond adj like<br>adj carbon) near3 ("sp3" "sp2")<br>near bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:45 |

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|          |    |   |   |    |    |                  |
|----------|----|---|---|----|----|------------------|
| S11<br>8 | 4  | (diamond adj like adj carbon)<br>near3 (("sp3" "sp2") near bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:47 |
| S11<br>9 | 2  | (oled (organic near5 (display<br>device))) same (contact adj<br>wiring) near5 (carbon (diamond<br>adj like adj carbon))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:49 |
| S12<br>0 | 2  | (oled (organic near5 (display<br>device))) same ((contact adj<br>wiring) near5 (carbon (diamond<br>adj like adj carbon))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/11 17:49 |
| S12<br>1 | 5  | (contact adj wiring) same<br>(multi\$layer (plurality near2<br>layer)) same (carbon<br>(diamond\$like adj carbon))        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 09:00 |
| S12<br>2 | 3  | ("5698901"   "5866920"  <br>"5985750").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/12 09:04 |
| S12<br>3 | 27 | ("5698901").URPN.   | USPAT   | OR | ON | 2006/04/12 09:35 |
| S12<br>4 | 50 | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (work adj<br>function)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 14:03 |
| S12<br>5 | 0  | S124 and (("sp2""sp3") adj bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 09:40 |
| S12<br>6 | 2  | S124 and (("sp2" "sp3") adj bond)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 09:40 |
| S12<br>7 | 14 | S124 and ( bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 09:40 |

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|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S12<br>8 | 10  | ("4940916"   "5258685"  <br>"5378963"   "5578225"  <br>"5965971"   "6023126"  <br>"6133690"   "6313572"  <br>"6333598"   "6340859").PN.                | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/12 10:00 |
| S12<br>9 | 11  | ("5129850"   "5180951"  <br>"5583393"   "5591312"  <br>"5825122"   "6097138"  <br>"6183714"   "6286226"  <br>"6297592"   "6383923"  <br>"6504292").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/12 10:07 |
| S13<br>0 | 19  | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (sp adj3bond)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:10 |
| S13<br>1 | 2   | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (sp adj3 bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:12 |
| S13<br>2 | 2   | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (sp adj4 bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:12 |
| S13<br>3 | 2   | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (sp near3 bond)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:12 |
| S13<br>4 | 176 | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (bond)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:19 |
| S13<br>5 | 0   | ((diamond\$like (diamond adj like))<br>adj carbon) near6 ("sp.sub.3" "sp.<br>sub.2")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:20 |
| S13<br>6 | 0   | ((diamond\$like (diamond adj like))<br>adj carbon) near6 ("sp.sub.3" )   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:20 |

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|          |    |  |   |    |    |                  |
|----------|----|--|---|----|----|------------------|
| S13<br>7 | 0  | ((diamond\$like (diamond adj like))<br>adj carbon) near6 ("sp.sub.3")                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:20 |
| S13<br>8 | 6  | "5942769"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 11:34 |
| S13<br>9 | 6  | ("5039358"   "5073785"  <br>"5243199"   "5256483"  <br>"5559367"   "5698901").PN.    | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/12 11:27 |
| S14<br>0 | 11 | "5480841"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 11:27 |
| S14<br>1 | 2  | "5942769".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 11:34 |
| S14<br>2 | 6  | ("5039358"   "5073785"  <br>"5243199"   "5256483"  <br>"5559367"   "5698901").PN.    | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/12 12:21 |
| S14<br>3 | 5  | (contact adj3 wiring) same (dlc<br>(diamond\$like) (diamond adj like<br>adj carbon)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 12:22 |
| S14<br>4 | 0  | 0423889*7  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 13:29 |
| S14<br>5 | 0  | 40423889*7   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 13:29 |
| S14<br>6 | 4  | "04238897"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 13:29 |

## EAST Search History

|          |   |   |   |    |    |                  |
|----------|---|---|---|----|----|------------------|
| S14<br>7 | 2 | ((diamond\$like adj carbon)<br>(diamond adj like adj carbon))<br>near6 (work adj function near6 ev) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 13:56 |
| S14<br>8 | 0 | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (work adj<br>function) near4 ev            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 14:03 |
| S14<br>9 | 1 | ((diamond\$like (diamond adj like))<br>adj carbon) near6 (work adj<br>function) near6 ev            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 14:04 |
| S15<br>0 | 2 | "5698901".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 14:14 |
| S15<br>1 | 2 | "6882094".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 14:14 |